PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference APVPB60212-3	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/EP2004/004121	International filing date (day/month/year) 16 April 2004 (16.04.2004)	Priority date (day/month/year) 17 April 2003 (17.04.2003)]		
International Patent Classification (IPC) or national classification and IPC 7 A61K 31/445, A61P 25/00				
Applicant GLAXO GROUP LIMITED				

1.	This international preliminary n International Searching Authori	eport on patentability (Chapter I) is issued by the International Bureau on behalf of the ity under Rule 44 bis.1(a).	
2.	This REPORT consists of a total of 8 sheets, including this cover sheet.		
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.		
3.	This report contains indications	relating to the following items:	
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VΠ	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.	The International Bureau will c not, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority	
		Date of issuance of this report 21 October 2005 (21.10.2005)	

Authorized officer

Telephone No. +41 22 338 89 75

Ellen Moyse

Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

To: See form PCT/SA/220 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43b/s.1)	From the					2.2 US con	
see form PCT/ISA/220 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) POT FURTHER ACTION See paragraph 2 below FOR FURTHER ACTION See paragraph 2 below International application No. PCT/EP2004/004121 International Patent Classification (IPC) or both national classification and IPC A61K31/445, A61P25.00 Applicant GLAXO GROUP LIMITED 1. This opinion contains indications relating to the following items: Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. V Reaconed statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 65. Ibis(b) that written opinion of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is Invited to submit to the IPEA a viriten reply together, where appropriate, with a mendments, before the expiration of three	INTERNATIONAL SEARCHING AUTHORITY			JRII Y		D(T
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Applicant's or agent's file reference See form PCT/SA/220 International application No. PCT/EP2004/004121 International Patent Classification (IPC) or both national classification and IPC A61K31/A45, A61P25/00 Applicant GLAXO GROUP LIMITED 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. IV Certain documents cited Box No. VI Certain documents cited Box No. VI Certain defects in the International application Box No. VII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application Box No. VIII Certain defects in the International application If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant those on the proving date, whichever expires later. For further options, see Form PCT/ISA/220.		-			Date of mailing		
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3. For further details, see notes to Form PCT/ISA/220.		For further options, see Form PCT/ISA/220.					
	3.	3. For further details, see notes to Form PCT/ISA/220.					
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Name and malling address of the ISA:

Authorized Officer

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Heller, D

Telephone No. +49 89 2399-8746



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/004121

	Box N	Vo. I	Basis of the opinion
1.	With r	regard nguag	to the language, this opinion has been established on the basis of the international application in ge in which it was field, unless otherwise indicated under this item.
	la	angua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With r	regard ssary	to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. typ	e of n	naterial:
		a s	equence listing
		tab	le(s) related to the sequence listing
	b. for	mat o	f material:
		in v	vritten format
		in c	computer readable form
	c. tim	e of f	iling/furnishing:
		cor	ntained in the international application as filed.
		file	d together with the international application in computer readable form.
		fur	nished subsequently to this Authority for the purposes of search.
3.	t	has be copies	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/004121

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Во	x No. II	Priority
1. 🛛	The fo	flowing document has not been furnished:
	⊠	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
		translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
	Conse nevert	quently it has not been possible to consider the validity of the priority claim. This opinion has heless been established on the assumption that the relevant date is the claimed priority date.
2. 🗆	has be	point on has been established as if no priority had been claimed due to the fact that the priority claim een found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.
3. Ad	ditional d	observations, if necessary:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/004121

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
	the entire international application,			
⊠	claims Nos. 12			
bed	because:			
×	the said international application, or the said claims Nos. 12 relate to the following subject matter which does not require an international preliminary examination (specify):			
	see separate sheet			
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):			
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.			
	no international search report has been established for the whole application or for said claims Nos.			
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:			
	the written form	\Box	has not been furnished	
			does not comply with the standard	
	the computer readable form		has not been furnished	
			does not comply with the standard	
			and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.	
	See separate sheet for further of	detai	ls ·	

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-14

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-14

Industrial applicability (IA)

Yes: Claims

1-11, 13, 14

No: Claims 12 (see sections III and V)

2. Citations and explanations

see separate sheet

Section III:

Claim 12 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Section V:

Prior art

D1 (WO03/066635) cited by the applicant relates to diazabicycle derivatives (p. 1, formula) in combination with paroxetine (p. 16, l. 8), to processes for their preparation, to pharmaceutical compositions containing them and to their medical use (p. 13, ll. 25ff).

D2 (US2004/0014770) relates to piperidine derivatives (p. 1, [0001]) in combination with paroxetine (p. 5 [0097]), to processes for their preparation, to pharmaceutical compositions containing them and to their medical use (p. 5, [0093]).

D3 (US2003/0144270) discloses an effective amount of one or more of the inventive NK1 receptor antagonists may be combined with an effective amount of one or more selective serotonin reuptake inhibitors ("SSRIs") amongst others paroxetine to treat depression or anxiety (p. 8, [0173] and [0174]).

However, D1 to D3 do not constitute prior art within the meaning of Rule 64.1 (b) PCT.

D4 (US2002/0123491) relates to the same subject matter as D3 (p. 3, [0036] and [0037]).

D5 (US2003/0064980) relates to a method of treating amongst others anxiety (p. 2, [0035]) comprising administering an effective amount of an NK1 antagonist of formula I (p. 1, [0004]) in combination with an SSRI selected from: fluoxetine, fluoxamine, paroxetine and sertaline, and pharmaceutically acceptable salts thereof (p. 3, [0038], [0039]).

D6 (WO02/10141) is similar to D3 to D5 (p. 42, l. 14, 26).

The same applies for D7 (WO01/44200) (p. 5, II. 8 to 21).

Novelty

The subject-matter of claims 1 to 14 is new in the sense of Article 33 (2) PCT: D4 to D7 are silent to the claimed combination. Therefore, present claims 1 to 14 are novel over the cited relevant prior art.

Although D1 to D3 do not constitute prior art within the meaning of Rule 64.1 (b) PCT, it appears to disclose all the features of claims 1 to 14 of the present application. D1 discloses the claimed subject-matter. Present claims 1 to 14 are therefore not novel over D1.

D2 differs from the present application only in its substituent R5.

Inventive step

Closest prior art seems to be D5. D5 differs from the present invention only in that it is silent to a concrete example of the selected combination.

The problem to be solved can be seen in the provision of further combinations of NK1 receptor antagonists and SSRI agents.

The person skilled in the art would derive the teaching of the present invention from D5. The dosage for paroxetine is in the range as already described in the prior art literature (e.g. D5, p. 99, l. 19).

There are no comparative tests showing a the effect as disclosed in the description on p. 1 and 2).

Therefore, claims 1 to 14 do not seem to be inventive over the prior art.

Industrial applicability

For the assessment of the present claim 19 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.